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### 1 [The Satchel system architecture: mobile access to documents and services](#)

Mike Flynn, David Pendlebury, Chris Jones, Marge Eldridge, Mik Lamming

 December 2000 **Mobile Networks and Applications**, Volume 5 Issue 4

 Full text available: [pdf\(207.51 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Mobile professionals require access to documents and document-related services, such as printing, wherever they may be. They may also wish to give documents to colleagues electronically, as easily as with paper, face-to-face, and with similar security characteristics. The Satchel system provides such capabilities in the form of a mobile browser, implemented on a device that professional people would be likely to carry anyway, such as a pager or mobile phone. Printing may be per ...

### 2 [Mobility & wireless access: Sensor-enhanced mobile web clients: an XForms approach](#)

John Barton, Tim Kindberg, Hui Dai, Nissanka B. Priyantha, Fahd Al-bin-ali

 May 2003 **Proceedings of the 12th international conference on World Wide Web**

 Full text available: [pdf\(485.90 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes methods for service selection and service access for mobile, sensor-enhanced web clients such as wireless cameras or wireless PDAs with sensor devices attached. The clients announce their data-creating capabilities in "Produce" headers sent to servers; servers respond with forms that match these capabilities. Clients fill in these forms with sensor data as well as text or file data. The resultant system enables clients to access dynamically discovered services spontaneously, ...

**Keywords:** MIME types, browsers, forms, mobile computing, sensors, ubiquitous computing

### 3 [Network security: Web tap: detecting covert web traffic](#)

Kevin Borders, Atul Prakash

 October 2004 **Proceedings of the 11th ACM conference on Computer and communications security**

 Full text available: [pdf\(129.06 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As network security is a growing concern, system administrators lock down their networks by closing inbound ports and only allowing outbound communication over selected protocols such as HTTP. Hackers, in turn, are forced to find ways to communicate with compromised


workstations by tunneling through web requests. While several tools attempt to analyze inbound traffic for denial-of-service and other attacks on web servers, Web Tap's focus is on detecting attempts to send significant amounts of ...

**Keywords:** HTTP, anomaly detection, covert channels, intrusion detection, spyware detection, tunnels

4 Making computers disappear: appliance data services

Andrew C. Huang, Benjamin C. Ling, John Barton, Armando Fox

July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking**


Full text available:  [pdf\(691.57 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Digital appliances designed to simplify everyday tasks are readily available to end consumers. For example, mobile users can retrieve Web content using handheld devices since content retrieval is well-supported by infrastructure services such as transformational proxies. However, the same type of support is lacking for input-centric devices, those that create content and allow users to share content. This lack of infrastructural support makes input-centric devices hard to use and less useful. ...

5 People, places, things: web presence for the real world

Tim Kindberg, John Barton, Jeff Morgan, Gene Becker, Debbie Caswell, Philippe Debaty, Gita Gopal, Marcos Frid, Venky Krishnan, Howard Morris, John Schettino, Bill Serra, Mirjana Spasojevic

October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5

Full text available:  [pdf\(248.58 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The convergence of Web technology, wireless networks, and portable client devices provides new design opportunities for computer/communications systems. In the HP Labs' "Cooltown" project we have been exploring these opportunities through an infrastructure to support "web presence" for people, places and things. We put web servers into things like printers and put information into web servers about things like artwork; we group physically related things into places embodied in web servers. Using ...

**Keywords:** location-aware computing, nomadic computing, physical-virtual linkage, ubiquitous computing, world wide web

6 Content: a practical, scalable, high-performance multimedia database

Lawrence Yapp, Craig Yamashita, Gregory Zick


July 1997 **Proceedings of the second ACM international conference on Digital libraries**

Full text available:  [pdf\(923.86 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 Measurement: A high-level programming environment for packet trace anonymization and transformation

Ruoming Pang, Vern Paxson

August 2003 **Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications**

Full text available:  [pdf\(251.27 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Packet traces of operational Internet traffic are invaluable to network research, but public

sharing of such traces is severely limited by the need to first remove all sensitive information. Current trace anonymization technology leaves only the packet headers intact, completely stripping the contents; to our knowledge, there are no publicly available traces of any significant size that contain packet payloads. We describe a new approach to transform and anonymize packet traces. Our tool provide ...

**Keywords:** anonymization, internet, measurement, network intrusion detection, packet trace, privacy, transformation

8 Efficient Web form entry on PDAs


Oliver Kaljuvee, Orkut Buyukkokten, Hector Garcia-Molina, Andreas Paepcke  
April 2001 **Proceedings of the 10th international conference on World Wide Web**

Full text available:  pdf(398.94 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** PDA, WAP, forms, mobile computing, wireless access

9 Social navigation: Making web sites be places for social interaction

Andreas Girgensohn, Alison Lee  
November 2002 **Proceedings of the 2002 ACM conference on Computer supported cooperative work**


Full text available:  pdf(617.04 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Technology can play an important role in enabling people to interact with each other. The Web is one such technology with the affordances for sharing information and for connecting people to people. In this paper, we describe the design of two social interaction Web sites for two different social groups. We review several related efforts to provide principles for creating social interaction environments and describe the specific principles that guided our design. To examine the effectiveness of ...

**Keywords:** awareness, common ground, communication, cooperation, participation, practice and experience, social interaction, usability, usage data, web-based collaboration

10 Data integration and sharing II: Scientific data repositories: designing for a moving target

Etzard Stolte, Christoph von Praun, Gustavo Alonso, Thomas Gross  
June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data**

Full text available:  pdf(739.27 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Managing scientific data warehouses requires constant adaptations to cope with changes in processing algorithms, computing environments, database schemas, and usage patterns. We have faced this challenge in the RHESSI Experimental Data Center (HEDC), a datacenter for the RHESSI NASA spacecraft. In this paper we describe our experience in developing HEDC and discuss in detail the design choices made. To successfully accommodate typical adaptations encountered in scientific data management systems ...

11 Augmenting paper to enhance community information sharing

Antonietta Grasso, Alain Karsenty, Marco Susani  
April 2000 **Proceedings of DARE 2000 on Designing augmented reality environments**

Full text available:  pdf(903.95 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Paper is traditionally considered as a major gap between the physical and electronic worlds, especially after the many attempts that have failed to attain a completely digital world. Paper based artifacts have many affordances that people want to continue to exploit.

The work presented here is part of the Campiello project. It describes how the existing paper artifacts in use during the visits to cultural and tourist towns as well as artefacts used for local communities can be extended ...

**Keywords:** augmented reality, paper user interface, recommender systems

## 12 XLibris: an automated library research assistant

Andrew Crossen, Jay Budzik, Mason Warner, Larry Birnbaum, Kristian J. Hammond  
January 2001 **Proceedings of the 6th international conference on Intelligent user interfaces**

Full text available:  pdf(209.48 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

While recent work has focused on providing tools and infrastructure for users to access electronic information over the Internet, the relationship between the physical world and information available online has been relatively unexplored. Information about a user's location, and the objects she interacts with, can be sufficient to recognize enough of the user's task to drive retrieval of online information relevant to the task at hand. The XLibris system automatically retrieves, aggregates ...

**Keywords:** automated retrieval, information aggregation, metasearch, ubiquitous computing

## 13 Architecture of a networked image search and retrieval system




R. Weber, J. Bollinger, T. Gross, H.-J. Schek  
November 1999 **Proceedings of the eighth international conference on Information and knowledge management**

Full text available:  pdf(1.67 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Large scale networked image retrieval systems face a number of problems that are not fully satisfied by current systems. On one hand, integrated solutions that store all image data centrally are often limited in terms of scalability and autonomy of data providers. On the other hand, WWW-based search engines proved to be fairly scalable, and data providers retain their autonomy. However, such engines often confront users with links to servers that are not available or to images that no longer ...

## 14 Interaction in the real world: The missing link: augmenting biology laboratory notebooks

Wendy E. Mackay, Guillaume Pothier, Catherine Letondal, Kaare Bøegh, Hans Erik Sørensen  
October 2002 **Proceedings of the 15th annual ACM symposium on User interface software and technology**

Full text available:  pdf(814.78 KB)  
 mov(258.00 bytes)  wmv (258.00 bytes) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Using a participatory design process, we created three prototype augmented laboratory notebooks that provide the missing link between paper, physical artifacts and on-line data. The final *a-book* combines a graphics tablet and a PDA. The tablet captures writing on the

paper notebook and the PDA acts as an "interaction lens" or window between physical and electronic documents. Our approach is document-centered, with a software architecture based on layers of physical and electronic informat ...

**Keywords:** SVG, a-book, augmented laboratory note-books, augmented reality, information layers, interaction lens, interactive paper

15 Designing two nonprofit Web sites on less than \$350 US per year each

Carl Stieren, Zbigniew Rachniowski


October 1996 **Proceedings of the 14th annual international conference on Systems documentation: Marshaling new technological forces: building a corporate, academic, and user-oriented triangle**

Full text available:  pdf(915.29 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

16 Augmenting recommender systems by embedding interfaces into practices

Antonietta Grasso, Michael Koch, Alessandro Rancati

November 1999 **Proceedings of the international ACM SIGGROUP conference on Supporting group work**

Full text available:  pdf(1.36 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Automated collaborative filtering systems promote the creation of a meta-layer of information, which describes users' evaluations of the quality and relevance of information items like scientific papers, books, and movies. A rich meta-layer is required, in order to elaborate statistically good predictions of the interest of the information items; the number of users' contributing to the feedback is a vital aspect for these systems to produce good prediction quality. The work presented here, ...

**Keywords:** paper interface, recommender system

17 Practitioners report: The parks PDA: a handheld device for theme park guests in squeak

Yoshiki Ohshima, John Maloney, Andy Ogden

October 2003 **Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**

Full text available:  pdf(488.82 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Parks PDA is a lightweight, handheld device for theme park guests that functions as a combination guidebook, map, and digital camera. Together with a small team of artists and designers, we created a prototype Parks PDA and content for a three hour guest experience, including a camera interface, a hyper-linked guide book, three games, an animal spotters guide, a cross-referenced map, animated movies with lip-synched sound, a ride reservation system, and more. Over 800 visitors to Disney's An ...

**Keywords:** PDA, development environment, end-user software, handheld device, multimedia data management, rapid software development

18 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  pdf(4.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

19 Novel interaction modalities I: The connected user interface: realizing a personal situated navigation service

Antonio Krüger, Andreas Butz, Christian Müller, Christoph Stahl, Rainer Wasinger, Karl-Ernst Steinberg, Andreas Dirschl  
January 2004 **Proceedings of the 9th international conference on Intelligent user interface**

Full text available:  pdf(15.31 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Navigation services can be found in different situations and contexts: while connected to the web through a desktop PC, in cars, and more recently on PDAs while on foot. These services are usually well designed for their specific purpose, but fail to work in other situations. In this paper we present an approach that connects a variety of specialized user interfaces to achieve a personal navigation service spanning different situations. We describe the concepts behind the \bf BPN (BMW Personal N ...

**Keywords:** pedestrian navigation systems, ubiquitous interfaces

20 Monitoring hacker activity with a Honeynet

Kevin Curran, Colman Morrissey, Colm Fagan, Colm Murphy, Brian O'Donnell, Gerry Fitzpatrick, Stephen Condit  
March 2005 **International Journal of Network Management**, Volume 15 Issue 2

Full text available:  pdf(434.12 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Honeynet Project was founded by 30 US based security professionals with the intention of researching the techniques, tools, tactics and motives of hackers and the 'blackhat' community in general. A Honeynet Project is an all volunteer, non-profit organization committed to sharing and learning the motives, tools, and tactics of the hacking community. It is comprised of a number of information security professionals dedicated to honeynet research and information security. This paper outlines t ...

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